

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 1 of 13

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Hardener L

UFI: CWAX-68DV-0006-KK95

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**Adhesives, sealants  
Hardener (Crosslinker )**1.3. Details of the supplier of the safety data sheet**

Company name:	R&G Faserverbundwerkstoffe GmbH	
	Composite Technology	
Street:	Im Meißel 7 - 13	
Place:	D-71111 Waldenbuch	
Telephone:	+49 (0)7157 5304-60	Telefax: +49 (0)7157 5304-70
e-mail:	info@r-g.de	
Contact person:	Michael Groß	Telephone: +49 (0)171 8163651
e-mail:	urlaubmg@r-g.de	
Internet:	www.r-g.de	
Responsible Department:	Management	

**1.4. Emergency telephone number:**Vergiftungs-Informationen-Zentrale Freiburg  
Tel: +49 (0)761 19240**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if swallowed.

Harmful if inhaled.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

3-aminomethyl-3,5,5-trimethylcyclohexylamine

benzyl alcohol

2-piperazin-1-ylethylamine

Phenol, styrenated

**Signal word:** Danger

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 2 of 13

**Pictograms:****Hazard statements**

H302+H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of waste according to applicable legislation.

**2.3. Other hazards**

Results of PBT and vPvB assessment: not applicable

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	25 - 50 %
	220-666-8	612-067-00-9
	01-2119514687-32	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H318 H317 H412	
100-51-6	benzyl alcohol	25 - 50 %
	202-859-9	603-057-00-5
	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H332 H302 H319	
140-31-8	2-piperazin-1-ylethylamine	2,5 - 9 %
	205-411-0	612-105-00-4
	Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H311 H302 H314 H317 H412	
61788-44-1	Phenol, styrenated	<= 2,5 %
	262-975-0	01-2119980970-27
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411	
69-72-7	salicylic acid	<= 2,5 %
	200-712-3	607-732-00-5
	01-2119486984-17	
	Repr. 2, Acute Tox. 4, Eye Dam. 1; H361d H302 H318	

Full text of H and EUH statements: see section 16.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 3 of 13

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
2855-13-2	220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine dermal: LD50 = 1840 mg/kg; oral: LD50 = 1030 mg/kg	25 - 50 %
100-51-6	202-859-9	benzyl alcohol inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 1620 mg/kg	25 - 50 %
140-31-8	205-411-0	2-piperazin-1-ylethylamine dermal: LD50 = 866 mg/kg; oral: LD50 = > 1470 mg/kg	2,5 - 9 %
61788-44-1	262-975-0	Phenol, styrenated dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	<= 2,5 %
69-72-7	200-712-3	salicylic acid dermal: LD50 = > 2000 mg/kg; oral: LD50 = 891 mg/kg	<= 2,5 %

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, saturated clothing immediately.

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

Wash with plenty of water/soap. If skin irritation occurs: Get medical advice/attention.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Provide fresh air. Immediately call a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water spray. In case of major fire and large quantities: Water spray jet, alcohol resistant foam.

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated: Gases/vapours, toxic, Gases/vapours, corrosive.

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

**SECTION 6: Accidental release measures**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 4 of 13

**6.1. Personal precautions, protective equipment and emergency procedures****General measures**

Use personal protection equipment. Provide adequate ventilation. Evacuate area.

**For non-emergency personnel**

No information available.

**For emergency responders**

No information available.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**6.3. Methods and material for containment and cleaning up****For containment**

No information available.

**For cleaning up**

No information available.

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray. Use personal protection equipment.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed and dry. Keep/Store only in original container. Provide for retaining containers, e.g. floor pan without outflow.

**Hints on joint storage**

Do not store together with:

Oxidising agent

Food and feedingstuffs

**Further information on storage conditions**

storage temperature 15 - 20 °C

**7.3. Specific end use(s)**

Adhesives, sealants

Hardener (Crosslinker )

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 5 of 13

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Worker DNEL,		inhalation		20,1 mg/m <sup>3</sup>
100-51-6	benzyl alcohol			
Worker DNEL, long-term		dermal		9,5 mg/kg bw/day
Worker DNEL, long-term		inhalation		22 mg/m <sup>3</sup>
140-31-8	2-piperazin-1-ylethylamine			
Worker DNEL, acute		dermal		20 mg/kg bw/day
Worker DNEL, acute		inhalation		21,4 mg/m <sup>3</sup>

**PNEC values**

CAS No	Substance	Environmental compartment	Value
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine		
		Freshwater	0,06 mg/l
		Marine water	0,006 mg/l
100-51-6	benzyl alcohol		
		Freshwater	1 mg/l
		Marine water	0,1 mg/l
140-31-8	2-piperazin-1-ylethylamine		
		Freshwater	0,058 mg/l
		Marine water	0,0058 mg/l
69-72-7	salicylic acid		
		Freshwater	0,2 mg/l
		Marine water	0,02 mg/l

**8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. When using do not eat, drink or smoke. When using do not eat or drink. Avoid contact with eyes and skin. Do not breathe gas/fumes/vapour/spray. Keep away from food, drink and animal feedingstuffs.

**Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

Wear suitable gloves.

Suitable material:

NBR (Nitrile rubber), FKM (fluoro rubber)

Thickness of the glove material  $\geq 0,5$  mm

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 6 of 13

Unsuitable material: Thick fabric., Leather articles

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.  
Protect skin by using skin protective cream.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Combination filtering device A-P2

**Environmental exposure controls**

Avoid release to the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	light yellow
Odour:	like: Amines
Odour threshold:	not determined

**Test method**

pH-Value: not applicable

**Changes in the physical state**

Melting point: not determined

Boiling point or initial boiling point and boiling range: > 200 °C

Flash point: > 100 °C

**Flammability**

Solid/liquid: not applicable

Gas: not applicable

**Explosive properties**

not explosive.

Lower explosion limits: not determined

Upper explosion limits: not determined

Auto-ignition temperature: not determined

**Self-ignition temperature**

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**

Not oxidising.

Vapour pressure: not determined

Density (at 23 °C): 0,998 g/cm<sup>3</sup> ISO 2811-2

Water solubility: Immiscible

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 7 of 13

**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:

not determined

Viscosity / dynamic:  
(at 25 °C)

115 mPa·s ISO 3219

Viscosity / kinematic:

not determined

Relative vapour density:

not determined

Evaporation rate:

not determined

**9.2. Other information**

No information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

Oxidizing agents, strong.

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Gases/vapours, toxic, Gases/vapours, corrosive.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Harmful if swallowed.

Harmful if inhaled.

**ATEmix calculated**

ATE (oral) 1143,9 mg/kg; ATE (inhalation aerosol) 3,846 mg/l

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 8 of 13

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine				
	oral	LD50 mg/kg 1030	Rat	Manufacturer	
	dermal	LD50 mg/kg 1840	Rabbit	Manufacturer	
100-51-6	benzyl alcohol				
	oral	LD50 mg/kg 1620	Rat	Manufacturer	
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			
140-31-8	2-piperazin-1-ylethylamine				
	oral	LD50 mg/kg > 1470	Rat	Manufacturer	
	dermal	LD50 mg/kg 866	Rabbit	Manufacturer	
61788-44-1	Phenol, styrenated				
	oral	LD50 mg/kg > 2000	Rat	Manufacturer	
	dermal	LD50 mg/kg > 2000	Rabbit	Manufacturer	
69-72-7	salicylic acid				
	oral	LD50 mg/kg 891	Rat	Manufacturer	
	dermal	LD50 mg/kg > 2000	Rat	Manufacturer	

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

Causes serious eye damage.

**Sensitising effects**

May cause an allergic skin reaction. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; 2-piperazin-1-ylethylamine; Phenol, styrenated)

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards****Endocrine disrupting properties**

No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 9 of 13

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine					
	Acute fish toxicity	LC50 110 mg/l	96 h	Leuciscus idus (golden orfe)	Manufacturer	EG 88/449
	Acute algae toxicity	ErC50 > 50 mg/l	72 h	Scenedesmus subspicatus	Manufacturer	EG 88/302
	Acute crustacea toxicity	EC50 23 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	OECD 202
100-51-6	benzyl alcohol					
	Acute fish toxicity	LC50 460 mg/l	96 h	Pimephales promelas (fathead minnow)	Manufacturer	
	Acute algae toxicity	ErC50 640 mg/l	96 h	Scenedesmus subspicatus	Manufacturer	
	Acute bacteria toxicity	(400 mg/l)	0,5 h	Pseudomonas putida	Manufacturer	
140-31-8	2-piperazin-1-ylethylamine					
	Acute crustacea toxicity	EC50 58 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	
61788-44-1	Phenol, styrenated					
	Acute algae toxicity	ErC50 3,14 mg/l	72 h	Scenedesmus subspicatus	Manufacturer	
69-72-7	salicylic acid					
	Acute fish toxicity	LC50 1370 mg/l	96 h	Pimephales promelas (fathead minnow)	Manufacturer	
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Scenedesmus subspicatus	Manufacturer	
	Acute crustacea toxicity	EC50 870 mg/l	48 h	Daphnia magna	Manufacturer	

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

not applicable

**12.6. Endocrine disrupting properties**

No information available.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 10 of 13

**List of Wastes Code - residues/unused products**

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

**List of Wastes Code - used product**


080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

**Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**


**14.1. UN number:** UN 2735  
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORNDIAMIN)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
 Hazard label: 8



Classification code: C7  
 Special Provisions: 274  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 Transport category: 3  
 Hazard No: 80  
 Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 2735  
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORNDIAMIN)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
 Hazard label: 8



Classification code: C7  
 Special Provisions: 274  
 Limited quantity: 5 L  
 Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 2735  
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORNDIAMIN)  
**14.3. Transport hazard class(es):** 8

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 11 of 13

**14.4. Packing group:**

III

Hazard label:

8



Marine pollutant:

-

Special Provisions:

223, 274

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-B

Segregation group:

18 - alkalis

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:**

UN 2735

**14.2. UN proper shipping name:**

AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORNDIAMIN)

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

III

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

1 L

Passenger LQ:

Y841

Excepted quantity:

E1

IATA-packing instructions - Passenger:

852

IATA-max. quantity - Passenger:

5 L

IATA-packing instructions - Cargo:

856

IATA-max. quantity - Cargo:

60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:

No

**14.6. Special precautions for user**

Warning: Corrosive

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

2004/42/EC (VOC):

26,25 %

Information according to 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

**Additional information**

German Chemicals Prohibition Ordinance (ChemVerbotsV)

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 12 of 13

Water hazard class (D): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H332	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H311	Toxic in contact with skin.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hardener L**

Revision date: 09.03.2021

Product code: 100145

Page 13 of 13

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*